

White Paper: Hydraulic Press Calculations

Calculating pressure on a hydraulic press used for laminating panels (hot or cold) can be very tedious and confusing when multiple units are being used.

There are two major systems of measurement (English and Metric), both of which have numerous units to express length, area, force and pressure. In order to simplify these calculations all measurements should be converted into either all metric or English units shown below:

	<u>Metric (SI)</u>	<u>English</u>
Length	cm	inch
Area	cm ²	in ²
Force	kg	lb
Pressure	kg/cm ²	psi (lb/in ²)

Trying to use two different measurement systems and alternate units for length, area, pressure not only causes confusion but greatly increases the chance for calculation errors.

A hydraulic press is designed so that a very large force is applied to a panel. This force is then applied evenly to the panels in the press. It is important to know three of the four values in the following equation.

$$\text{Hydraulic Line Pressure} \times \text{Total Cylinder Area} = \text{Glue Line Pressure} \times \text{Total Panel Area}$$

Hydraulic Gauge (Line) Pressure: This is the value seen on the machine's pressure gauge. The pressure unit is typically measured in bars (metric) or psi (English). On most presses, the maximum pressure will be no more than 200 bar or 3,000 psi.

<u>To Convert from</u>	<u>Conversion Factors</u> <u>To</u>	<u>Multiply by</u>
bar	kg/cm ²	1.02
kg/cm ²	bar	0.98
bar	psi	14.5
kg/cm ²	psi	14.22
psi	kg/cm ²	0.0703

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The Top Books of the Year White Paper Hydraulic Press Calculation Adhesive The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. White Paper Hydraulic Press Calculation Adhesive : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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